

## **BRIDGE'17-Bridging the Talent Gap with Computational Science Methods (4th Workshop)**

### **Objectives**

The workshop focuses on tackling the HPC and Computational Science talent gap, since, according to IDC and our latest studies, in EU, USA, Japan as well as in the BRICS and Latin America this gap appears to be similar in gravity and subject areas. On the other hand we observe mathematics led innovation both in EU and USA, with critical demand for Computational Science Research Methods to bridge the above gap. Thus the focus of the workshop is on the overall environment and how the needed research skills for the changing HPC ecosystem can be built into the university courses and professional development training programs. The aim is to provide forum for discussion highlighting not just the single instances on lesson level but rather the means to affect change by increasing Computational Science visibility at curricula and degree levels.

The workshop solicits **position papers, strategic and full papers** covering, but not limited to, the following topics:

#### ***Building Skills Set for Innovation:***

- Identifying factors/parameters of success, impact and achievements, etc. while applying and implementing Computational Science research methods.
- Diversification of the HPC work force through appropriate teaching methods and multidisciplinary content

#### ***Curricula development and Training Roadmaps:***

- Domain Applications and Case studies in the context of the Computational Science/ HPC ecosystem: multidisciplinary Computational Science and domain specific case studies showing integration of curricula.

#### ***Teaching Methods:***

- Learning Analytics, studies and approaches in evaluating the impact of the Computational Science research methods on the Higher Education ecosystem at PG and professional level
- Information Technologies and approaches/platforms that facilitate and support Computational Science research methods (collaborative tools and environments for Computational Science, etc.)
- Social Context and Learning Environments (Collaborative learning, communities and community building, etc.): Teaching/Learning methodologies that support and facilitate Computational Science research methods both in on-line and face-to-face mode of delivery.

#### **Program Committee:**

Nia Alexandrov, BSC, Spain  
Raul Ramirez, ITESM, Mexico  
Svetlana Chuprina, PSU, Russia  
Vassil Alexandrov, ICREA-BSC, Spain

**Workshop co-chairs:**

Nia Alexandrov (nia.alexandrov@bsc.es)  
Vassil Alexandrov

**Important dates:**

- Paper submission deadline for this workshop: **January 31th, 2017**
- Notification of acceptance: February 28th, 2017

**How to Submit:**

1. Prepare the manuscripts in Procedia Computer Science format (no more than 10 pages) available on the EasyChair ICCS 2017 site.
2. Log-in to ICCS 2017 submission site in EasyChair
3. You will need to create an account if you do not have an existing account in EasyChair.
4. Specify the workshop name as **BRIDGE'17-Bridging the Talent Gap with Computational Science Methods**

Authors are invited to submit manuscripts describing original, unpublished research and recent developments as well as position and strategic papers in the remit of the Workshop.

All accepted papers will be printed in the conference proceedings published by Elsevier Science in the open-access Procedia Computer Science and indexed by Scopus, ScienceDirect, Thomson Reuters Conference Proceedings Citation (former ISI Proceedings) -an integrated index within Web of Science. The papers will contain linked references, XML versions and citable DOI numbers.

The submitted paper must be camera-ready and formatted according to the rules of Procedia Computer Science, not exceeding 10 pages. Submission implies the willingness of at least one of the authors to register and present the paper.

Papers must be based on unpublished original work and must be submitted to ICCS only.

After the conference, selected papers will be invited for a special issue of the Journal of Computational Science.

You can access the ICCS 2015 proceedings by visiting Science Direct link.

**We are looking forward to seeing you at the workshop and ICCS 2017.**

Barcelona Supercomputing Center - Centro Nacional de Supercomputación

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